

Our Ref: Sec/Vol-8/2022

Date: 03.11.2022

BSE Limited Listing Department Phiroze Jeejeebhoy Towers Dalal Street, Mumbai-400 001

National Stock Exchange of India Limited Listing Department Exchange Plaza, C-1, Block-G, Bandra Kurla Complex Bandra(E), Mumbai - 400 051.

Dear Sirs,

Subject: Submission of half yearly Disclosure on Related Party Transactions

With reference to the captioned subject, please find enclosed the disclosure on Related Party Transactions for the half year ended 30th September 2022 as per the requirements of Regulation 23(9) of SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015.

Kindly take the same on record and acknowledge receipt.

Yours faithfully,

FOR LAKSHMI MACHINE WORKS LIMITED

C R SHIVKUMARAN COMPANY SECRETARY

											(Amt in INR Crores) Additional disclosure of related party transactions - applicable only in case the related party transaction relates to loans, inter-corporate deposits, advances or investments made or given by the listed entity/subsidiary. These details need to be disclosed only once, during the reporting period when such transaction was undertaken.							
	Details of the party (listed entity /subsidiary) entering into the transaction	Details of the o	ounterparty						In case monies are due to either party as a resu of the transaction		In case any financial indebtedness is incurred to make o							ances or investments
S. No	Name	Name	Relationship of the counterparty with the listed entity or its subsidiary	Type of related party transaction	Details of Other related party Transaction	Value of the related party transaction as approved by the audit committee	Remarks on approval by Audit Committee	Value of transaction during the reporting period	Opening balance	Closing balance	Nature of indebtedness (loan/ issuance of debt/ any other etc.)	Cost	Tenure	Nature (loan/ advance/inter- corporate deposit/ investment)	Interest Rate (%)	Tenure	Secured/ unsecured	Purpose for which the funds will be utilised by the ultimate recipient of funds (end usage)
1	Lakshmi Machine Works Limited	Sanjay Jayavarthanavelu	Key management personnel of entity or parent	Remuneration	-	11.19	Approved by Board of Directors and Shareholders as applicable	11.19	7.6	1 10.06			_	-	_	-	-	-
2	Lakshmi Machine Works Limited	K. Soundhar Rajhan	Key management personnel of entity or parent	Remuneration	-	0.79	Approved by Board of Directors and Shareholders as applicable	0.79		0 0			_		_	-	-	
3	Lakshmi Machine Works Limited	V.Senthil	Key management personnel of entity or parent	Remuneration	-	0.37	Approved by Board of Directors and Shareholders as applicable	0.37		0					-	-	-	
4	Lakshmi Machine Works Limited	C.R. Shivkumaran	Key management personnel of entity or parent	Remuneration	-	0.23	Approved by Board of Directors and Shareholders as applicable	0.23		0 0					-	-	-	_
5	Lakshmi Machine Works Limited	Aditya Himatsingka	Director	Any other transaction	Sitting Fees and Commission paid to Non-executive / Independent Director	0.09	Approved by Board of Directors and Shareholders as applicable	0.09		0 0				-	-	_		
6	Lakshmi Machine Works Limited	Dr.Mukund Govind Rajan	Director	Any other transaction	Sitting Fees and Commission paid to Non-executive / Independent Director	0.08	Approved by Board of Directors and Shareholders as applicable	0.08		0 0						-	-	
7	Lakshmi Machine Works Limited	Justice.Chitra Venkataraman. Retd	Director	Any other transaction	Sitting Fees and Commission paid to Non-executive / Independent Director	0.09	Approved by Board of Directors and Shareholders as applicable	0.09		0 0			-		-	-	-	
8	Lakshmi Machine Works Limited	Arun Alagappan	Director	Any other transaction	Sitting Fees and Commission paid to Non-executive / Independent Director	0.07	Approved by Board of Directors and Shareholders as applicable	0.07		0 0			_		-	-	-	_
9	Lakshmi Machine Works Limited	T C Suseelkumar	Director	Any other transaction	Sitting Fees and Commission paid to Non-executive / Independent Director	0.06	Approved by Board of Directors and Shareholders as applicable	0.06) o			_			-	_	
10	Lakshmi Machine Works Limited	S. Pathy	Director	Any other transaction	Sitting Fees and Commission paid to Non-executive / Independent Director	0.09	Approved by Board of Directors and Shareholders as applicable	0.09					_			_		
11	Lakshmi Machine Works Limited	Aroon Raman	Director	Any other transaction	Sitting Fees and Commission paid to Non-executive / Independent Director	0.01	Approved by Board of Directors and Shareholders as applicable	0.01		0 0			-	-		-	-	
12	Lakshmi Machine Works Limited	Jaidev Jayavarthanavelu	Director	Any other transaction	Sitting Fees and Commission paid to Non- Executive / Independent Director	0.01	Approved by Board of Directors and Shareholders as applicable	0.01) o			_		_	_	-	
13	Lakshmi Machine Works Limited	Chakradhara Aerospace & Cargo Private Limited	Other related party	Sale of goods or services		320.00	Rs. 320 Crores is the overall limit for Chakradhara Aerospace & Cargo Private Limited	0.77) o			-	-	-	-	-	
14	Lakshmi Machine Works Limited	Chakradhara Aerospace & Cargo Private Limited	Other related party	Purchase of goods or services		320.00	Rs. 320 Crores is the overall limit for Chakradhara Aerospace & Cargo Private Limited	78.37) 0			-	-	_	-	-	
15	Lakshmi Machine Works Limited	Chakradhara Aerospace & Cargo Private Limited	Other related party	Any other transaction	Trade payables and other liabilities	320.00	Rs. 320 Crores is the overall limit for Chakradhara Aerospace & Cargo Private Limited	0.00	15.4	5 13.14			_		_	_		
16	Lakshmi Machine Works Limited	Eshaan Enterprises Private Limited	Other related party	Purchase of goods or services		5.00	Rs. 5 Crores is the overall limit for Eshaan Enterprises Private Limited	1.98		0 0			-		-	-	-	_
17	Lakshmi Machine Works Limited	Eshaan Enterprises Private Limited	Other related party	Any other transaction	Trade payables and other liabilities	5.00	Rs. 5 Crores is the overall limit for Eshaan Enterprises Private Limited	0.00	0.18	0.21			_	-	_	-	-	_
18	Lakshmi Machine Works Limited	Harshni Textiles Private Limited	Other related party	Sale of goods or services		25.00	Rs. 25 Crores is the overall limit for Harshni Textiles Private Limited	0.37		0 0					_	_	-	_
19	Lakshmi Machine Works Limited	Harshni Textiles Private Limited	Other related party	Any other transaction	Trade payables and other liabilities	25.00	Rs. 25 Crores is the overall limit for Harshni Textiles Private Limited Rs. 2 Crores is the overall limit for Lakshmi Card Clothing Mfg Co. Private	0.00	0.13	0.09			-		-	-	-	_
20	Lakshmi Machine Works Limited	Lakshmi Card Clothing Mfg Co. Private Limited Lakshmi Card Clothing Mfg Co. Private	Other related party	Sale of goods or services		2.00	Lakshmi Card Clothing Mfg Co. Private Limited Rs. 2 Crores is the overall limit for Lakshmi Card Clothing Mfg Co. Private	0.01		0 0					_	-	-	-
21	Lakshmi Machine Works Limited	Lakshmi Card Clothing Mfg Co. Private Limited	Other related party	Purchase of goods or services		2.00	Limited	0.03) 0			-		_	-		_

					Rs. 450 Crores is the overall limit for Lakshmi Electrical Control Systems									
22 Lakshmi Machine Works Limited	Lakshmi Electrical Control Systems Limited	Other related party	Sale of goods or services	450.0	100 Limited	7.32	0	C	-		-	-	_	
					Rs. 450 Crores is the overall limit for									
23 Lakshmi Machine Works Limited	Lakshmi Electrical Control Systems Limited	Other related party	Purchase of goods or services	450.0	Lakshmi Electrical Control Systems Ulimited	141.74	0	c	-		-	-	-	
				Trade payables and other	Rs. 450 Crores is the overall limit for Lakshmi Electrical Control Systems									
24 Lakshmi Machine Works Limited	Lakshmi Electrical Control Systems Limited	Other related party	Any other transaction		100 Limited	0.00	30.67	30	-		-	-	_	
					Rs. 165 Crores is the overall limit for									
25 Lakshmi Machine Works Limited	Lakshmi Electrical Drives Private Limited	Other related party	Purchase of goods or services	165.0	Lakshmi Electrical Drives Private O Limited	46.27	0	C	_		_	-	-	
				To do any obligated about	Rs. 165 Crores is the overall limit for									
26 Lakshmi Machine Works Limited	Lakshmi Electrical Drives Private Limited	Other related party	Any other transaction	Trade payables and other liabilities 165.0	Lakshmi Electrical Drives Private Ulmited	0.00	10.35	11.07	-		-	-	_	_
					Rs. 150 Crores is the overall limit for									
27 Lakshmi Machine Works Limited	Lakshmi Life Sciences Private Limited	Other related party	Purchase of goods or services	150.0	00 Lakshmi Life Sciences Private Limited	66.87	0	С	-		-	-	-	
					Rs. 150 Crores is the overall limit for									
28 Lakshmi Machine Works Limited	Lakshmi Life Sciences Private Limited	Other related party	Sale of goods or services	150.0	00 Lakshmi Life Sciences Private Limited	2.37	0	C	-		-	-	-	
				Trade payables and other	Rs. 150 Crores is the overall limit for									
29 Lakshmi Machine Works Limited	Lakshmi Life Sciences Private Limited	Other related party	Any other transaction		00 Lakshmi Life Sciences Private Limited	0.00	4.74	12.82	-		-	-	-	
					Rs. 150 Crores is the overall limit for Lakshmi Precision Technologies									
30 Lakshmi Machine Works Limited	Lakshmi Precision Technologies Limited	Other related party	Purchase of goods or services	150.0	00 Limited Rs. 150 Crores is the overall limit for	39.26	0	С	-		-	-	-	-
					Lakshmi Precision Technologies									
31 Lakshmi Machine Works Limited	Lakshmi Precision Technologies Limited	Other related party	Sale of goods or services	150.0	Do 450 Constant the suspell limit for	8.34	0	0	-	+ -	-	-	-	
				Trade payables and other	Rs. 150 Crores is the overall limit for Lakshmi Precision Technologies									
32 Lakshmi Machine Works Limited	Lakshmi Precision Technologies Limited	Other related party	Any other transaction		00 Limited	0.00	2.77	1.01	-	+ -	-	-	-	1
					Rs. 50 Crores is the overall limit for									
	Lakshmi Ring Travellers (CBE) Private				Lakshmi Ring Travellers (CBE) Private									
33 Lakshmi Machine Works Limited	Limited	Other related party	Purchase of goods or services	50.0	00 Limited	6.13	0	0	-	-	-	-	-	+
					Rs. 50 Crores is the overall limit for									
34 Lakshmi Machine Works Limited	Lakshmi Ring Travellers (CBE) Private Limited	Other related party	Sale of goods or services	500	Lakshmi Ring Travellers (CBE) Private Ulimited	0.22	^							_
34 Eaksiiiii Waciiiie Works Eiiiiteu	Limited	Other related party	Sale of goods of services	30.0	Jo Limited	0.22								
	Lakshmi Ring Travellers (CBE) Private			Trade payables and other	Rs. 50 Crores is the overall limit for Lakshmi Ring Travellers (CBE) Private									
35 Lakshmi Machine Works Limited	Limited Limited	Other related party	Any other transaction		00 Limited	0.00	1.17	1.09	-		-	-	-	
					Rs. 1 Crores is the overall limit for LCC									
36 Lakshmi Machine Works Limited	LCC Cargo Holdings Private Limited	Other related party	Purchase of goods or services	1.0	OCargo Holdings Private Limited	0.16	0	С	-		-	-	-	
					Rs. 125 Crores is the overall limit for									
37 Lakshmi Machine Works Limited	Revantha Services Private Limited	Other related party	Purchase of goods or services	125.0	00 Revantha Services Private Limited	20.28	0	C	-		-	-	-	
					Rs. 125 Crores is the overall limit for									
38 Lakshmi Machine Works Limited	Revantha Services Private Limited	Other related party	Purchase of fixed assets	125.0	00 Revantha Services Private Limited	8.66	0	C	-		-	-	-	
				Trade payables and other	Rs. 125 Crores is the overall limit for									
39 Lakshmi Machine Works Limited	Revantha Services Private Limited	Other related party	Any other transaction	liabilities 125.0	00 Revantha Services Private Limited	0.00	0.41	0	-		-	-	-	-
					Rs. 125 Crores is the overall limit for									
40 Lakshmi Machine Works Limited	Revantha Services Private Limited	Other related party	Any other transaction	Trade receivable and other assets 125.0	00 Revantha Services Private Limited	0.00	0	7.32	-		-	-	-	-
					Rs. 6.25 Crores is the overall limit for									
41 Lakshmi Machine Works Limited	Shri Kara Engineering Private Limited	Other related party	Sale of goods or services	6.2	25 Shri Kara Engineering Private Limited	0.12	0		-		-	-	-	-
42 Lakshmi Machine Works Limited	Shri Kara Engineering Private Limited	Other related and	Durch and a second		Rs. 6.25 Crores is the overall limit for 25 Shri Kara Engineering Private Limited	2.65	0							
42 Lakshmi Machine Works Limited	Shri Kara Engineering Private Limited	Other related party	Purchase of goods or services			2.65	U	U	-	-	-	-	-	
43 Lakshmi Machine Works Limited	Shri Kara Engineering Private Limited	Other related party	Any other transaction	Trade payables and other liabilities 6.2	Rs. 6.25 Crores is the overall limit for Shri Kara Engineering Private Limited	0.00	0.55	0.29				_	_	_
200 EMBRETAIN WORKS LITTLES	and a confine come to trade continued		, other dansaction	0.4		0.00	0.33	0.23		1		-		
44 Lakshmi Machine Works Limited	Starline Travels Private Limited	Other related party	Purchase of goods or services	14.0	Rs. 14 Crores is the overall limit for 00 Starline Travels Private Limited	4.20	n	n				_		
			general services			1.20	-							
45 Lakshmi Machine Works Limited	Starline Travels Private Limited	Other related party	Any other transaction	Trade payables and other liabilities 14.0	Rs. 14 Crores is the overall limit for OO Starline Travels Private Limited	0.00	0.09	0.09						
					Rs. 316 Crores is the overall limit for					T				
46 Lakshmi Machine Works Limited	Super Sales India Limited	Other related party	Purchase of goods or services	316.0	OO Super Sales India Limited	39.70	0	0	-		-	-		
					Do 216 Crores is the aura-II limit f									
47 Lakshmi Machine Works Limited	Super Sales India Limited	Other related party	Sale of goods or services	316.0	Rs. 316 Crores is the overall limit for Super Sales India Limited	8.25	0	0	_		=	_		
					Rs. 316 Crores is the overall limit for									
48 Lakshmi Machine Works Limited	Super Sales India Limited	Other related party	Sale of fixed assets	316.0	NS. 316 Crores is the overall limit for Super Sales India Limited	0.27	0	0	-		-	-	-	
				Trade payables and other	Rs. 316 Crores is the overall limit for	Ι Τ]
49 Lakshmi Machine Works Limited	Super Sales India Limited	Other related party	Any other transaction		00 Super Sales India Limited	0.00	12.86	12.87	-	+	-	-	-	<u> </u>
					Rs. 20 Crores is the overall limit for									
50 Lakshmi Machine Works Limited	The Lakshmi Mills Company Limited	Other related party	Sale of goods or services	20.0	00 The Lakshmi Mills Company Limited	2.09	0	0	-	+ -	-	-		1
				Trade payables and other	Rs. 20 Crores is the overall limit for									
51 Lakshmi Machine Works Limited	The Lakshmi Mills Company Limited	Other related party	Any other transaction	liabilities 20.0	OO The Lakshmi Mills Company Limited Rs. 12.50 Crores is the overall limit for	0.00	1.62	1.56	-	+ -	-	-	-	
					Titan Paints & Chemicals Private									
52 Lakshmi Machine Works Limited	Titan Paints & Chemicals Private Limited	Other related party	Purchase of goods or services	12.5	50 Limited Rs. 12.50 Crores is the overall limit for	5.71	0	0	-	+ -	-	-	-	-
				Trade payables and other	Titan Paints & Chemicals Private									
53 Lakshmi Machine Works Limited	Titan Paints & Chemicals Private Limited	Other related party	Any other transaction	liabilities 12.5	Rs. 0.40 Crores is the overall limit for	0.00	1.10	1.36	-	+ -	-	-	-	
	Waterfield Financial and Investment				Waterfield Financial and Investment									
54 Lakshmi Machine Works Limited	Advisors Pvt Ltd	Other related party	Purchase of goods or services	0.4	40 Advisors Pvt Ltd	0.20	0	0	-	-	-	-	-	+
	Detect Technol 1 Division 1	Other related :	Durchass of the control of the contr		Rs. 20 Crores is the overall limit for									
55 Lakshmi Machine Works Limited	Petrus Technologies Private Limited	Other related party	Purchase of goods or services	20.0	00 Petrus Technologies Private Limited	1.50	0		1 -		-	-		

_															
						Rs. 20 Crores is the overall limit for									
56	Lakshmi Machine Works Limited	Petrus Technologies Private Limited	Other related party	Any other transaction	Trade receivable and other assets	20.00 Petrus Technologies Private Limited	0.00	0.15	1.88	-	-	-	-	-	-
						Rs. 150 Crores is the overall limit for									
		LMW Textile Machinery (Suzhou) Co Ltd.				LMW Textile Machinery (Suzhou) Co									
57	Lakshmi Machine Works Limited	China	Subsidiaries	Purchase of goods or services		150.00 Ltd. China	0.31	0	0	-	-		-	-	-
						Rs. 150 Crores is the overall limit for									
		LMW Textile Machinery (Suzhou) Co Ltd.				LMW Textile Machinery (Suzhou) Co									
58	Lakshmi Machine Works Limited	China	Subsidiaries	Sale of goods or services		150.00 Ltd. China	82.34	0	0	-	-		1 -	-	
						Rs. 150 Crores is the overall limit for									
		LMW Textile Machinery (Suzhou) Co Ltd.				LMW Textile Machinery (Suzhou) Co									
59	Lakshmi Machine Works Limited	China	Subsidiaries	Any other transaction	Trade receivable and other assets	150.00 Ltd. China	0.00	72.90	93.24	-	-		-	-	
						Rs. 150 Crores is the overall limit for									1
		LMW Textile Machinery (Suzhou) Co Ltd.			Trade payables and other	LMW Textile Machinery (Suzhou) Co									
60	Lakshmi Machine Works Limited	China	Subsidiaries	Any other transaction	liabilities	150.00 Ltd. China	0.00	2.95	3.26	1	-			-	
						Rs. 100 Crores is the overall limit for									
61	Lakshmi Machine Works Limited	LMW Middle East FZE	Subsidiaries	Purchase of goods or services		100.00 LMW Middle East FZE	4.70	o	0	=	-		. -	-	- -
						Rs. 100 Crores is the overall limit for									
62	Lakshmi Machine Works Limited	LMW Middle East FZE	Subsidiaries	Sale of goods or services		100.00 LMW Middle East FZE	26.79	o	0	-	-		. -	-	
						Rs. 100 Crores is the overall limit for									
63	Lakshmi Machine Works Limited	LMW Middle East FZE	Subsidiaries	Any other transaction	Trade receivable and other assets	100.00 LMW Middle East FZE	0.00	o	26.79	_	-	. .		-	-
					Trade payables and other	Rs. 100 Crores is the overall limit for									
64	Lakshmi Machine Works Limited	LMW Middle East FZE	Subsidiaries	Any other transaction	liabilities	100.00 LMW Middle East FZE	0.00	اه	1.2	_	.	.	. _!	_	
								1							1
						Rs. 5 Crores is the overall limit for	I								
		Labelia Farancia de Farancia de Paristra				Lakshmi Energy and Environment									1
	Lakshmi Machine Works Limited	Lakshmi Energy and Environment Designs Private Limited		D			0.04	ا							
65	Lakshmi Machine Works Limited	Private Limited	Other related party	Purchase of goods or services		5.00 Designs Private Limited	0.04	- U	U	-	-		1 -1	-	1
						Rs. 5 Crores is the overall limit for									
		Lakshmi Energy and Environment Designs			Trade payables and other	Lakshmi Energy and Environment									
66	Lakshmi Machine Works Limited	Private Limited	Other related party	Any other transaction	liabilities	5.00 Designs Private Limited	0.00	o	0.01	=	-		. -	-	- -
						Rs. 2 Crores is the overall limit for									
		Lakshmi Card Clothing Mfg Co. Private			Trade payables and other	Lakshmi Card Clothing Mfg Co. Private									
67	Lakshmi Machine Works Limited	Limited	Other related party	Any other transaction	liabilities	2.00 Limited	0.00	ol	0.01	_	_		. -	_	- -
			,	, , , , , , , , , , , , , , , , , , , ,											
															1
			la.,		Trade payables and other	Rs. 1 Crores is the overall limit for LCC		ا							
68	Lakshmi Machine Works Limited	LCC Cargo Holdings Private Limited	Other related party	Any other transaction	liabilities	1.00 Cargo Holdings Private Limited	0.00	- 0	0.03	-	-	-	1 1	-	+
															1
						Rs. 320 Crores is the overall limit for									
		Chakradhara Aerospace & Cargo Private				Chakradhara Aerospace & Cargo									
69	Lakshmi Machine Works Limited	Limited	Other related party	Sale of fixed assets		320.00 Private Limited	0.07	0	0	-	-		-	-	
						Rs. 165 Crores is the overall limit for									
						Lakshmi Electrical Drives Private									
70	Lakshmi Machine Works Limited	Lakshmi Electrical Drives Private Limited	Other related party	Sale of goods or services		165.00 Limited	0.01	0	0		-		-	-	
						Rs. 100 Crores is the overall limit for									
71	Lakshmi Machine Works Limited	LMW Middle East FZE	Subsidiaries	Sale of fixed assets		100.00 LMW Middle East FZE	0.22	0	0	-	-			-	
						Rs. 14 Crores is the overall limit for	I								
72	Lakshmi Machine Works Limited	Starline Travels Private Limited	Other related party	Sale of goods or services		14.00 Starline Travels Private Limited	0.01	اه	0	_	.			_	
	LMW Textile Machinery (Suzhou) Co Ltd.				Trade payables and other			- 1							
73	China	Lakshmi Life Sciences Private Limited	Other related party	Any other transaction	liabilities	Limits not applicable	0.00	0.20	0.41	_	.		. .	_	
	LMW Textile Machinery (Suzhou) Co Ltd.			,			2.00								
74	China	Lakshmi Life Sciences Private Limited	Other related party	Purchase of goods or services		Limits not applicable	3.20	n	n	_	.		. .	_	
	LMW Textile Machinery (Suzhou) Co Ltd.	and defences i made callified		2. 2. 2. 2. 2. Goods of Sci Vices		Entre to approach	5.20	- 1							_
75	China	Super Sales India Limited	Other related party	Purchase of goods or services		Limits not applicable	0.01	n	n	_	.		. .	_	
	LMW Textile Machinery (Suzhou) Co Ltd.			2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2		Elinio not applicable	0.01	- 4							+
76	China	LMW Middle East FZE	Other related party	Purchase of goods or services		Limits not applicable	10.15	٨	0						
-/0	LMW Textile Machinery (Suzhou) Co Ltd.	Zivivi Wilduic Edat i ZE	Osher related party	. S. Chase of goods of services	Trade payables and other	Linits not applicable	10.13	J	U	-			1		+
77	China	LMW Middle East FZE	Other related party	Any other transaction	liabilities	Limits not applicable	0.00	١	7.29]
''	Cillia	LMW Textile Machinery (Suzhou) Co Ltd.	Other related party	Any other transaction	lianiiiiez	Linits not applicable	0.00	- 0	7.29	-	1		1	-	1 1
70	LMW Middle East FZE	China	Other related party	Any other transaction	Trade receivable and other accets	Limits not applicable	0.00	_	10.04						
78	LIVI W IVII DO LE EAST FZE	Cillia	Other related party	Any other transaction	Trade receivable and other assets	Limits not applicable	0.00	0	10.04	-	-		1	-	1 1
	LANK MINING STATES	Labelani Clabal PTF	Other released are :		Trade payables and other	[ا۔							
79	LMW Middle East FZE	Lakshmi Global PTE	Other related party	Any other transaction	liabilities	Limits not applicable	0.00	0	2.81	-	-	1	+ -	-	1
80	LMW Middle East FZE	Lakshmi Global PTE	Other related party	Purchase of goods or services		Limits not applicable	4.51	0	0			 	·	-	